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INTRODUCTION

Overview

Congratulations on your purchase of the new digital camera.
Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with an 8.28 Mega pixel CCD, this camera is capable of capturing images with a resolution of up to 3264 x 2448 pixels.

Other cool features provided by the camera include the following:

LCD monitor -	2.8" full color TFT LCD monitor (230K pixels) makes it easy to frame your subject when capturing images. It also displays the images you have captured.
Recording media -	32 MB internal memory (25 MB available for image storage). External memory supports SD memory cards up to 1 GB.
Optical zoom -	The 6x optical lens allows you to capture telephoto and wide-angle images.
Digital zoom -	8.5x digital zoom in conjunction with the 6x optical zoom permit zoom photography of up to 51x. Captured images may be reviewed and a selected portion of an image may be enlarged up to 8x.
Focus mode -	Images can be captured with the distance to the subject set by normal auto focus, macro auto focus, super macro auto focus, infinity or manual focus.
Still image capture mode -	You may capture different images including single, a series of 3 images using auto-exposure bracketing, and 3 images continuously.
Voice memo -	You may annotate your images with a 30 second voice memo. Images may be voice-annotated at the time of capture, or during playback.
DPOF support -	You may print your images on a DPOF compatible printer by simply inserting the memory card with embedded printing information.
Photography mode -	The camera has 10 different photography modes such as Auto, Scene, Program, Shutter Speed Priority, Aperture Priority, Manual, User Setting, Video, Panorama and Anti-Shake. By setting the mode dial, the camera controls the exposure focus and white balance depending on the selected mode.
Scene mode -	You may select a previously set scene mode for the following situations: Sports, Portrait, Night Portrait, Night, Candlelight, Fireworks, Landscape, Natural Green, Sunrise, Sunset, Macro, Black & White, Sepia, Splash Water, Flowing Water and Pets.

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Package Contents

Carefully unpack your kit box and ensure that you have the following items:

- Digital Camera
- USB cable
- User's manual

Optional Accessories:

- SD memory card
- AC power adapter
- Rechargeable lithium-ion battery
- A/V cable
- Software CD-ROM
- Camera pouch
- Camera strap

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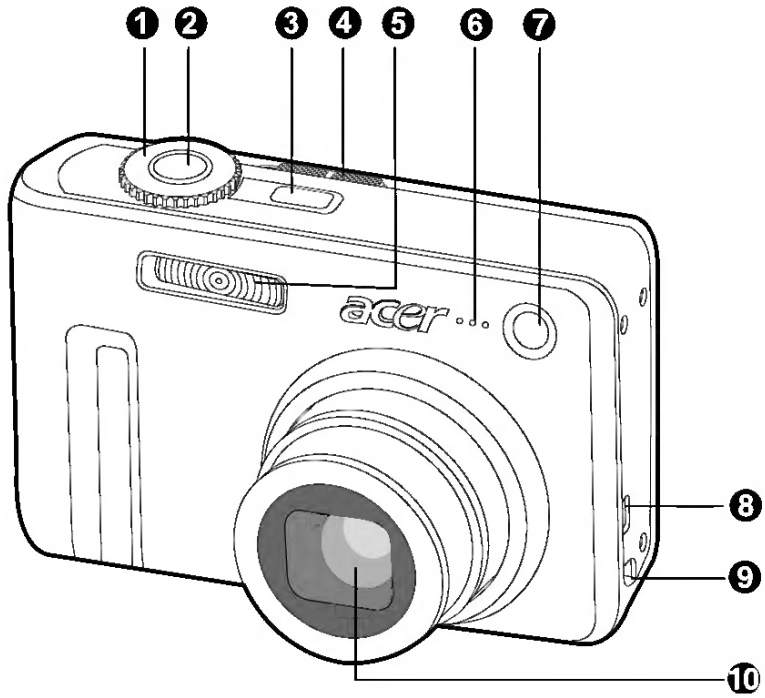
GETTING TO KNOW THE CAMERA

Front View



#	Name	Description
1.	Mode dial	Sets the camera mode.
2.	Shutter button	Focuses and locks both focus & exposure when pressed halfway down. Captures the image when pressed all the way down.
3.	**POWER** (Power) button	Turns the camera power on and off.
4.	Mode switch Photography mode Playback mode	Sets the camera mode. Selects this when capturing still images or recording video clips. Performs image playback and deletion.
5.	Flash	Provides flash illumination.
6.	Microphone	For recording audio with video clips and voice annotation.
7.	Self-timer LED (AF auxiliary LED)	Blinks during Self-timer mode until the image is captured. Lights for auto focusing when capturing in a dark place.
8.	USB or A/V OUT terminal	Allows you to connect a USB cable or an A/V cable to the camera.
9.	DC IN 5V terminal	Allows you to connect an AC power adapter to operate the camera without battery, or to charge rechargeable lithium-ion battery.
10.	Lens	6x optical zoom lens allows you to capture telephoto and wide-angle images.

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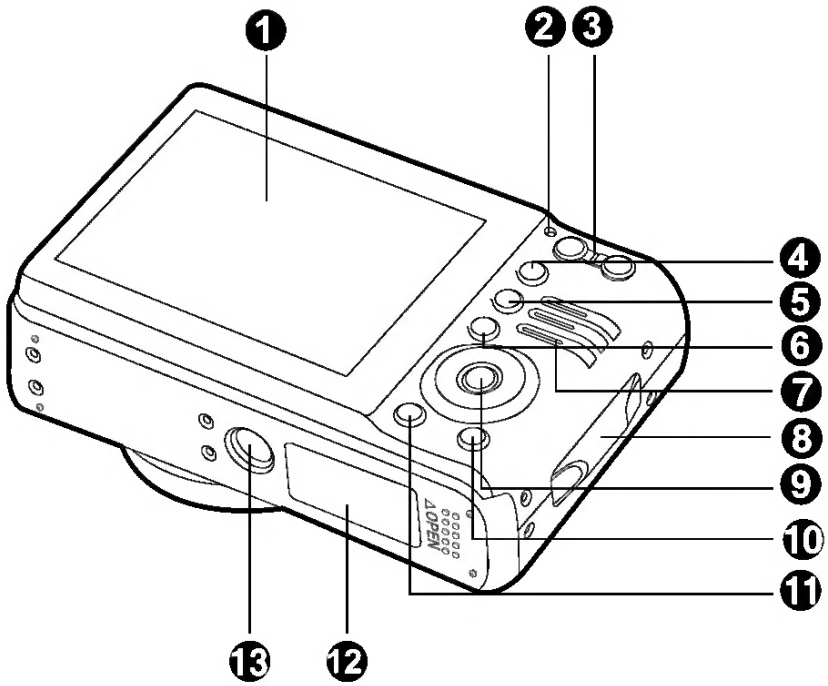
Rear View



#	Name	Description
1.	LCD monitor	Provides menu information to operate the camera, previews the image before capturing it and review it afterwards.
2.	Status LED	Displays the camera current state.
3.	Zoom in button Zoom out button	Zooms the lens to telephoto position. Zooms the lens to wide-angle position.
4.	**MENU** (Menu) button	Toggles On-Screen Display (OSD) menu on and off.
5.	Focus button	Allows you to choose the appropriate focus setting.
6.	Self-timer button	Allows you to toggle the self-timer on and off, selects the desired self-timer mode.
7.	Speaker	Produces camera sounds and plays recorded audio.
8.	Strap holder	Camera strap attachment.
9.	**SET** / Direction button	Allows you to scroll through menus and images, and then select your choices.
10.	(Delete) button	Allows you to delete an image.
11.	(Display) button	Turns the LCD monitor display and live view on and off.
12.	Battery / SD memory card cover	Access to the battery and memory card.
13.	Tripod socket	For tripod mounting.

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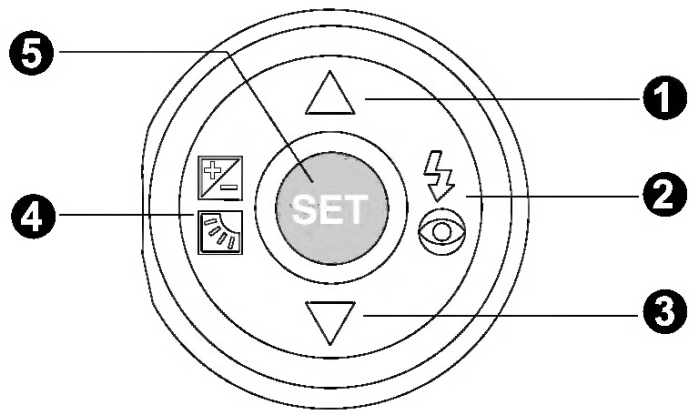
SET /Direction button



#	Name	Description
1.	▲ button	Scrolls upwards. Changes value of shutter speed, aperture, exposure compensation and manual focus.
2.	▶ button Flash button	Scrolls right. Allows you to choose the appropriate flash setting.
3.	▼ button	Scrolls downwards. Changes value of shutter speed, aperture, exposure compensation and manual focus.
4.	◀ button Exposure correction on / Backlight correction button	Scrolls left. Allows you to toggle the exposure compensation / backlight compensation and off.
5.	**SET** button	Enters the menu page and confirms the chosen setting.

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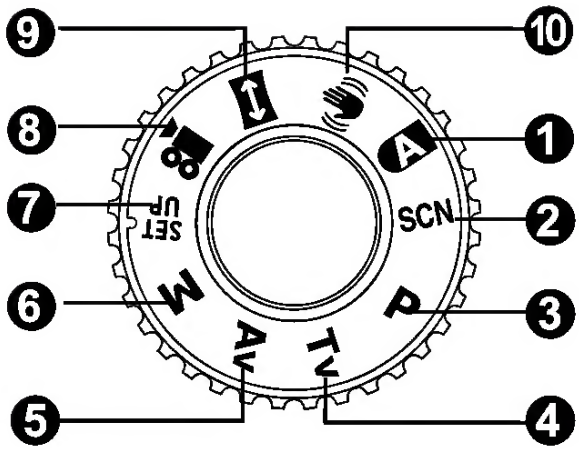
Mode dial



#	Name		Description
1.	A	Auto	The camera automatically sets for exposure, etc.
2.	SCN	Scene Mode	Point-and-shoot simplicity when capturing images under 16 special conditions.
3.	P	Program (auto exposure)	In program mode the shutter speed and aperture will be set automatically, but other parameters may be set manually.
4.	Tv	Shutter Speed Priority	You may specify the shutter speed while the camera sets the corresponding aperture value.
5.	Av	Aperture Priority	You may specify the aperture value while the camera sets the corresponding shutter speed.
6.	M	Manual	For full manual control over exposure, aperture and other settings.
7.	SET UP	User Setting	This mode allows you manually set the setting parameters and all these settings will be memorized.
8.		Video	For recording video clips.
9.		Panorama	Allows you to capture panorama (stitch-assist) shots.
10.		Anti-Shake	DSP anti-shake could minimize (not 100% reduce) the jitter from shaky hands that causes many photos to look blurred by shifting the lens unit. This mode offsets unintentional hand movement while you are taking pictures to give you clear, sharp images even when taking handheld telephoto shots or shooting at night.

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Status LED Indicator

The status LED indicates the current operational status of the camera. The meaning of the LED changes depending upon what the camera is doing.

Color	State	During power off	During photography	During connection to a PC
Green	On	The completion of battery charge.	AE or AF is locked with the shutter button held halfway.	-
	Flashing	The battery is charging.	-	-
Red	On	An AC power adapter is connected, but a battery is not in a camera. Battery charging error.	Accessing files in progress.	In communication to PC.(SD memory card is inserted.)
	Flashing	-	When the image is not in focus.	-
Orange	On	-	Flash charging in progress.	-
	Flashing	-	Hardware malfunction.	SD memory card is not inserted.

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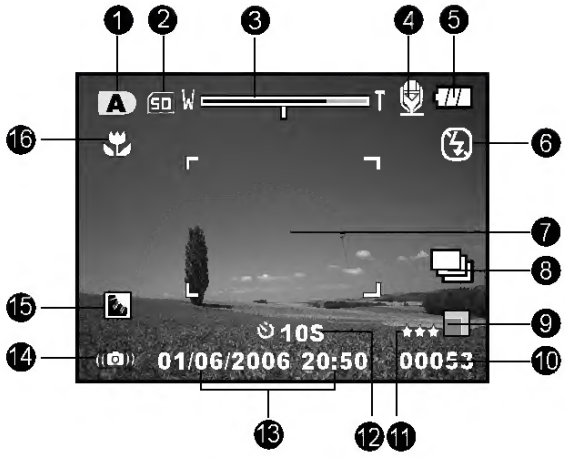
LCD Monitor Icons

For Photography modes: [A], [SCN]

1. Mode icon
2. Storage media
   [INT] Internal memory (no card)
   [SD] SD memory card
3. Zoom status
4. Voice memo
5. Battery condition
   [ ] Full battery power
   [ ] Medium battery power
   [ ] Low battery power
   [ ] No battery power
6. Flash mode
   [Blank] Automatic
   [ ] Red-eye Reduction
   [ ] Forced Flash
   [ ] Flash Off
7. Main focus area
8. Capture mode icon
   [Blank] Single
   [ ] Continuous
   [**AEB**] Auto Exposure Bracketing
   * In [**SCN**] mode, Night Portrait and Fireworks can use single capture only.
9. Image size resolution
   [ ] 3264 x 2448
   [ ] 2560 x 1920
   [ ] 1600 x 1200
   [ ] 640 x 480
10. Available number of shots
11. Image quality
    [★★★] Fine
    [★★] Normal
    [★] Economy



12. Self-timer icon
    [**10s**] 10 sec.
    [**2s**] 2 sec.
    [**10+2s**] 10+2 sec.
13. Date and time
14. Slow shutter warning
    * Poor lighting conditions. Images will be vulnerable to vibration.
15. Backlight correction
16. Focus setting
    [Blank] Normal Auto Focus
    [ ] Macro Auto Focus
    [ ] Super Macro Auto Focus
    [ ] Infinity
    [MF] Manual Focus
    * Adjust focus distance with the ▲ / ▼ buttons.

NOTE

- Pressing the button changes the LCD display in the sequence of: display with icons, display without icons.
- To prevent a blur image we recommend that you use a tripod for capturing images when slow shutter warning icon appears.

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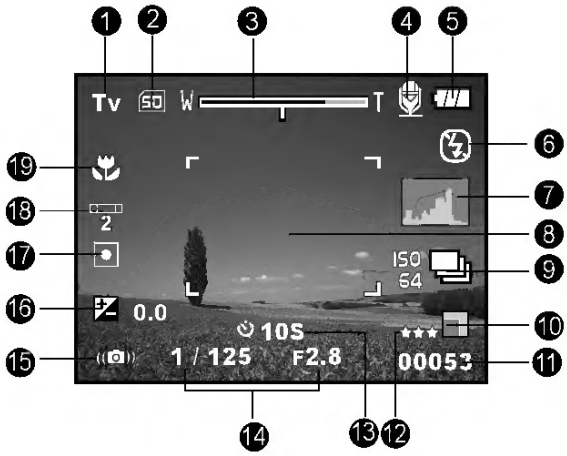
For Photography modes: [P], [Tv], [Av], [M], [SET UP], [((✋))]



1. Mode icon
2. Storage media
3. Zoom status
4. Voice memo
5. Battery condition
6. Flash mode
7. Histogram
8. Main focus area
9. Capture mode icon
10. Image resolution
11. Available number of shots
12. Image quality
13. Self-timer icon
14. Shutter speed / Aperture
    * In [P] , [SET UP] and [((✋))] modes, Shutter speed / Aperture icon appears at half shutter (S1) condition.
15. Slow shutter warning
16. [ ] Exposure compensation
    [ ] Backlight correction
17. Metering
    [ ] Multi
    [ ] Spot
    [ ] Average
18. White balance
    [Blank] Auto
    [ ] Incandescent
    [ ] Fluorescent 1
    [ ] Fluorescent 2
    [ ] Day Light
    [ ] Cloudy
    [ ] Manual
19. Focus setting

NOTE

■ Pressing the |▢| button changes the LCD display in the sequence of: display with icons, display with icons and histogram, display without icons.

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For Photography mode: [▭]

1. Mode icon
2. Storage media
3. Zoom status
4. Battery condition
5. Flash mode
6. White balance
7. Metering
8. Main focus area
9. [⊡] Exposure compensation
   [⊡] Backlight correction
10. Image resolution
11. Available number of shots
12. Image quality
13. Image to be captured indicator
14. Focus setting
15. Slow shutter warning

NOTE

■ Pressing the |▢| button changes the LCD display in the sequence of: display with icons, display without icons.

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For Video mode [🎥]

1. Mode icon
2. Storage media
3. Zoom status
4. Battery condition
5. Video resolution
6. Available recording time/Elapsed time
7. Video quality
8. Self-timer icon
9. Date and time
10. White balance icon
11. Focus setting

Playback mode [▶] -Still image playback

1. Mode icon
2. File number
3. Folder number
4. Protect icon
5. Voice memo
6. DPOF icon
7. Storage media

Playback mode [▶]-Video playback

1. Video status bar
2. Elapsed time
3. File number
4. Folder number
5. Protect icon
6. Mode icon
7. Play mode
8. Sound off icon (When the ▲ button is playback.)
9. Image quality
10. Image resolution
11. Frame rate
12. Storage media
13. Total recorded time

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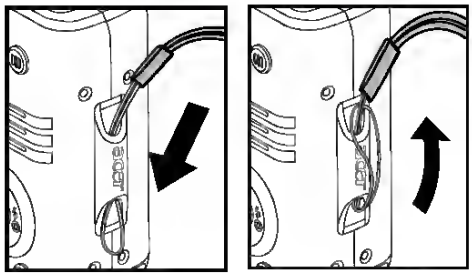
GETTING STARTED

Attaching the Camera Strap (Optional Accessory)

Attach the camera strap as shown in the illustration.

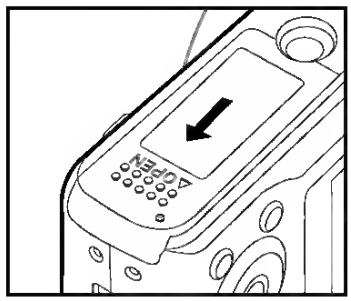


Inserting and Removing the Battery (Optional Accessory)

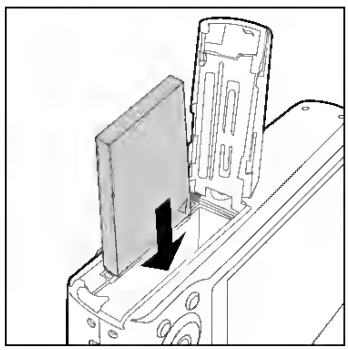
We highly recommend using specified rechargeable lithium-ion battery (3.7V) to realize the full capability of your camera. Charge the battery fully before using the camera. Make sure that the power of the camera is off before inserting or removing the battery.

Inserting the Battery

1. Open the battery / SD memory card cover in the direction of the [OPEN] arrow.



2. Insert the battery in the correct orientation shown.
   - Tilt the battery lock lever, and then insert the battery in the direction of the arrow.
3. Close the battery / SD memory card cover.



Removing the Battery

Open the battery / SD memory card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way.

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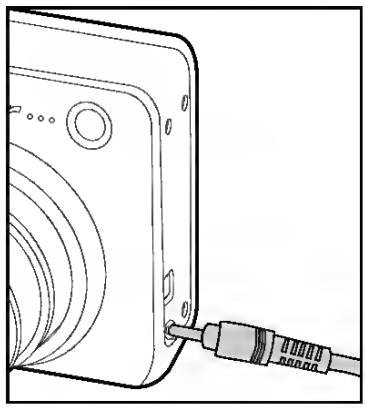
Charging the Battery

Using the optional AC power adapter may charge the battery or operate the camera as power supply. Make sure that the power of the camera is off and then insert the battery before starting.

1. Insert one end of the AC power adapter into the DC IN 5V terminal of the camera.
2. Insert the other end of the AC power adapter into a wall outlet.
   - The status LED flashes green when charging is started and lights green when charging is completed. The LED lights red when a charging error has occurred.
   - It is recommended to fully discharge the battery before recharging.
   - Charging time varies according to the ambient temperature and the status of battery.



NOTE

- This camera must be used with specified AC power adapter. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- Always make sure that the camera is off before removing the battery.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the camera in cold conditions, keep the camera and battery warm by storing it in a warm place such as an interior pocket between shots.
- If you open the battery cover without removing the battery, the battery power will not be disconnected.
- If you remove the battery, you have to insert the battery within 2 hours in order to make sure that the date and time will not be reset.

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Using an AC Power Adapter (Optional Accessory)

Using an AC power adapter prevents the camera from automatically powered off while transferring files to your computer.
Perform the steps in the preceding section "Charging the Battery".

NOTE

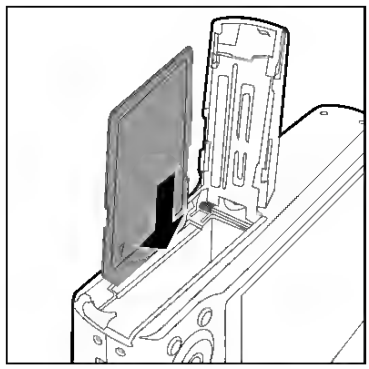
- Make sure to use only the AC power adapter specified for the digital camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.

Inserting and Removing an SD Memory Card (Optional Accessory)

The digital camera comes with approx. 32 MB of internal memory (25 MB available for image storage), allowing you to store captured still images or video clips in the digital camera. However, you can also expand the memory capacity by using an optional SD memory card so that you can store more files.

Inserting an SD memory card

1. Open the battery / SD memory card cover.
2. Insert the SD memory card in the correct orientation shown.
   - Hold the SD memory card with its front side (printed arrow) facing the rear side of the camera, and then insert the card as far as it can go.
3. Close the battery / SD memory card cover.

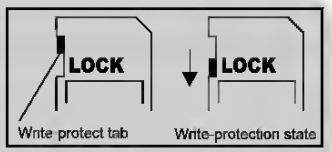


Removing an SD memory card

Open the battery / SD memory card cover, press lightly on the edge of the SD memory card and it will eject.

NOTE

- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write-protected tab (on the side of the SD memory card) to "LOCK".



- However, to save, edit or erase data on an SD memory card, you must unlock the card.
- Be sure to format an SD memory card with this digital camera before using it. Refer to section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details.
- To prevent the damage of an SD memory card, please turn off the power when inserting or removing the SD memory card. If inserting or removing the SD memory card with power on, the camera turns off automatically.

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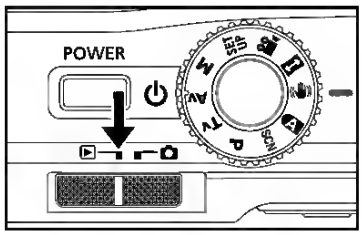
Setting the Date and Time

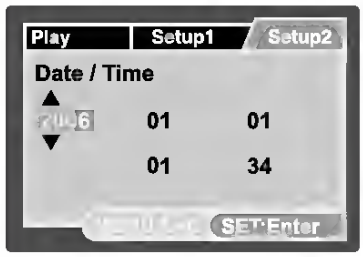
The date/time needs to be set if/when:

- Camera is turned on for the first time.
- Camera is turned on after leaving the camera without the battery for an extended period of time.

When the date and time information is not displayed on the LCD monitor, follow these steps to set the correct date and time.

1. Slide the mode switch to [▶], and press the **MENU** button.
2. Select [Setup2] with the ▶ button.
3. Select [Date/Time] with the ▲ / ▼ buttons, and press the **SET** button.
   - The Date/Time setting screen will be displayed.
4. Select the item's field with the ◀ / ▶ buttons and adjust the value for the date and time with the ▲ / ▼ buttons.
   - The date and time is set in the order year-month-day-hour-minute.
   - The time is displayed in 24-hour format.
5. After confirming all settings are correct, press the **SET** button.
   - The setting will be stored and the screen will return to the Setup2 menu.
6. To exit from the Setup2 menu, press the **MENU** button.

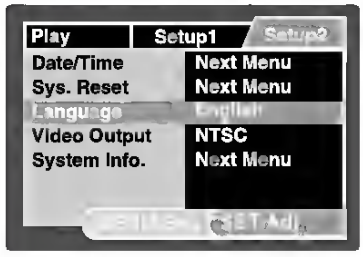




Choosing the Display Language

Choose an On-Screen Display (OSD) language for information to be displayed on the LCD monitor.

1. Slide the mode switch to [▶], and press the **MENU** button.
2. Select [Setup2] with the ▶ button.
3. Select [Language] with the ▲ / ▼ buttons, and press the **SET** button.
   - The language setting screen will be displayed.
4. Select the displayed language with the ▲ / ▼ buttons and press the **SET** button.
   - The setting will be stored.
5. To exit from the Setup2 menu, press the **MENU** button.



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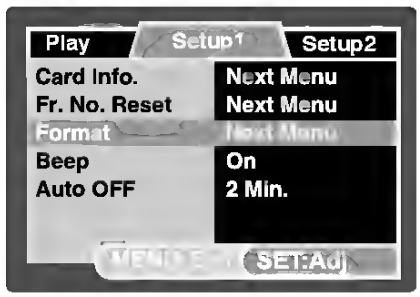
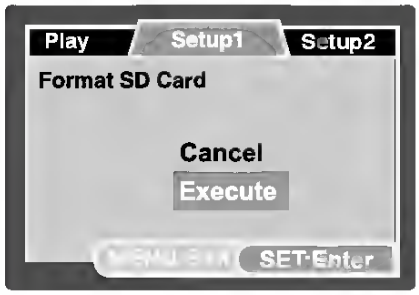
Formatting an SD Memory Card or Internal Memory

This function formats the internal memory (or memory card) and deletes all stored still images / video clips and data.

1. Slide the mode switch to [▶], and press the **MENU** button.
2. Select [Setup1] with the ▶ button.
3. Select [Format] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To cancel formatting, select [Cancel].
5. To exit from the Setup1 menu, press the **MENU** button.





NOTE

- To format the internal memory, do not insert an SD memory card into the camera. Otherwise, you will format the SD memory card.
- Formatting the SD memory card also erases the protected images. All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary.
- Formatting is an irreversible action and data cannot be recovered at a later time.
- An SD memory card having any problem cannot be properly formatted.

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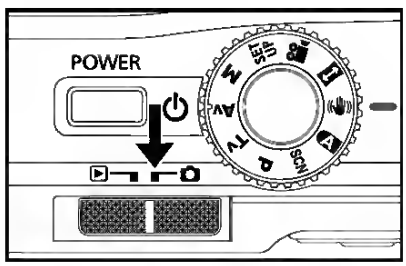
Setting Image Resolution and Quality

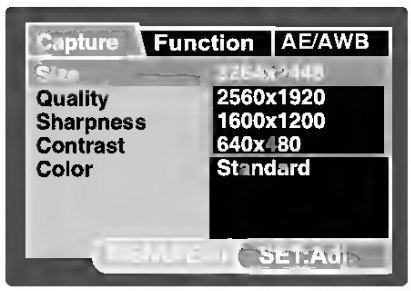
Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored. As you get to know the camera, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.
Higher resolution and higher quality images offer the best photographic results, but produce large file sizes. Therefore, few images will take up a lot of memory space. High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

To change image resolution or image quality, perform these steps below:

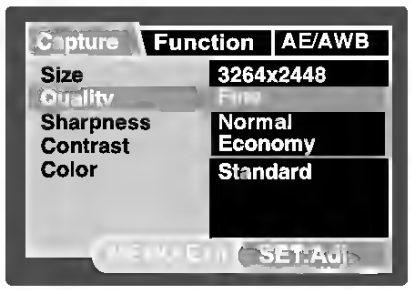
1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.



2. Press the **MENU** button.
   - [Capture] of the photography menu is displayed.
3. Select [Size] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.



5. Select [Quality] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
7. To exit from the photography menu, press the **MENU** button.



NOTE

- Frame rate of video recording would be different depending on the SD memory card access speed.
  If using a low access speed SD memory card, it influences the frame rate and recording time.

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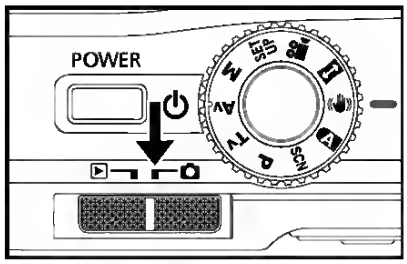
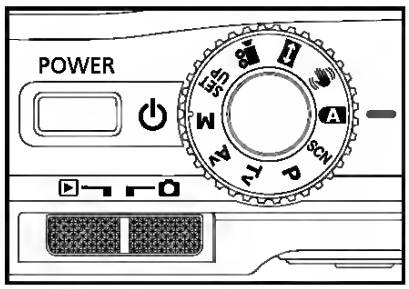
PHOTOGRAPHY MODE

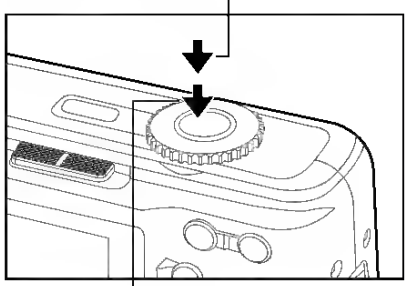
[A] Auto Mode

Auto photography mode is the most commonly used photography mode. Images can be captured simply because the exposure (the combination of shutter speed and aperture setting) is determined automatically to suit the photographic conditions. Your camera is equipped with a 2.8" TFT color LCD monitor to help you compose images, playback recorded images/movie clips or adjust menu settings.

1. Press the **POWER** button to turn on the camera.
2. Slide the mode switch to [📷] and set the mode dial to [A].
3. Compose your image in the LCD monitor.
4. Press the shutter button down halfway.
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure.
   - The focus-area frame turns blue and the status LED lights green when the camera is focused and exposure is determined.
   - When the focus or exposure is not suitable, the frame of the focus area turns yellow and the status LED flashes red.
5. Press the shutter button down fully to capture the image.
   - If the photographic preview is set to "On", images (the captured image) will be displayed while the image is being recorded onto the memory.
   - When the voice memo is set to "On", [VOICE RECORDING] will be displayed on the screen immediately after the image is captured and voice memo recording will start.
   - Press the shutter button one more time during recording, or wait for 30 seconds, [VOICE RECORD END] will be displayed and the recording will end. A [🎤] icon is displayed with images that have been recorded with a voice memo.







① Press down halfway

② Press down fully

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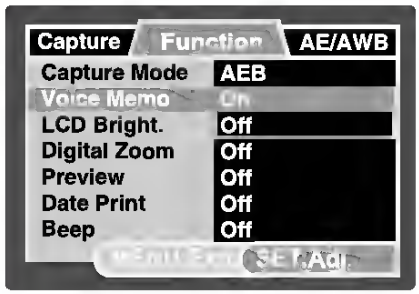
Recording Voice Memos

A voice memo can be recorded once for 30 seconds at still image mode immediately following a still image capture.



1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes, except for [🎥] and [🎞] modes.
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - [Function] menu is displayed.
3. Select [Voice Memo] with the ▲ / ▼ buttons, and press the **SET** button.
4. Select [On] with the ▲ / ▼ buttons, and press the **SET** button.
5. Press the **MENU** button to exit from the menu.
   - [🎙] icon is displayed on the screen.
6. Compose the image, press the shutter button down halfway, then press it down fully.
   - [VOICE RECORDING] is displayed on the screen immediately, and the voice memo recording starts.
7. Press the shutter button one more time during recording, or wait for 30 seconds.
   - [VOICE RECORD END] will be displayed and the recording will end.
   - A [🎙] icon is displayed with images that have been recorded with a voice memo.

NOTE

- Voice memo is only available in [Single] capture mode.
- Voice memo is automatically fixed at [Off] in [Continuous] or [AEB] capture mode.

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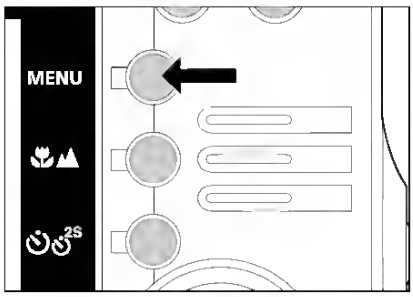
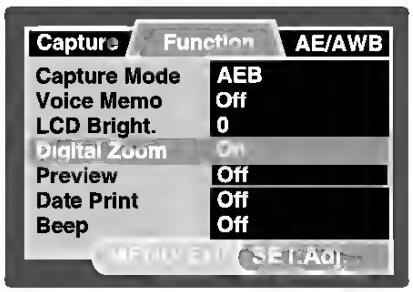
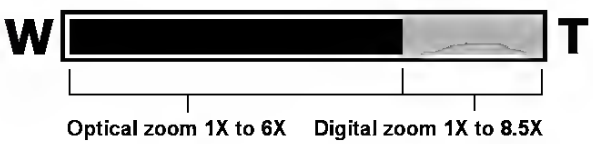
Using the Digital Zoom

Using a combination of 6 times optical zoom and 8.5 times digital zoom permits zoom photography up to 51 times to suit the subject and the distance. While digital zoom can be a useful feature, the more an image is enlarged (zoomed), the more pixelated (grainier) the image will appear.

1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes, except for [🎞] mode.
2. To enable the digital zoom:
   a. Press the **MENU** button.
   b. Select [Function] with the ▶ button.
   c. Select [Digital Zoom] with the ▲ / ▼ buttons, and press the **SET** button.
   d. Select [On] with the ▲ / ▼ buttons again, and press the **SET** button.
   e. Press the **MENU** button to exit from the menu screen.
   f. To activate the digital zoom, press and hold the 🌷 button completely until the image on the LCD monitor expands.
3. Press the shutter button to capture a "zoomed" image.







NOTE

■ The zoom setting is automatically cancelled by either turning the camera off or the activation of the Auto OFF function.

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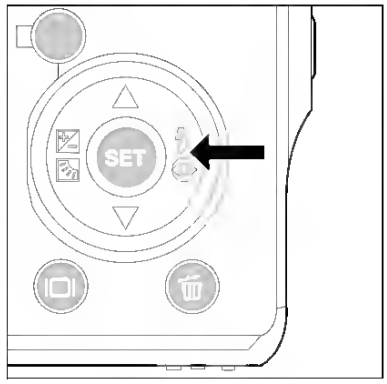
Setting the Flash

Set the flash for capturing images. The flash firing mode can be set to suit for the photographic conditions.

1. Slide the mode switch to [📷].
2. Toggle the 👁⚡ button to select the desired flash mode.



The table below will help you choose the appropriate flash mode:

Flash mode	Description
[Blank] Automatic Flash	The flash fires automatically to suit the photographic conditions. This mode is only available when the camera is set to the [🅰], [P], [SET UP] and [▭] mode.
[👁⚡] Red-eye Reduction	Use this mode to reduce the red-eye phenomenon when you want to capture natural- looking images of people and animals in low-light conditions. When the camera mode is [🅰], [P] and [M], the flash will fire to suit the brightness of the subject. When the camera mode is [Tv] and [Av], the flash will always fire.
[⚡] Forced Flash	In this mode, the flash always fires. Use this mode for photographing under artificial light such as backlighting, fluorescent lighting, etc.
[⊘⚡] Flash Off	Use this mode when capturing images using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.

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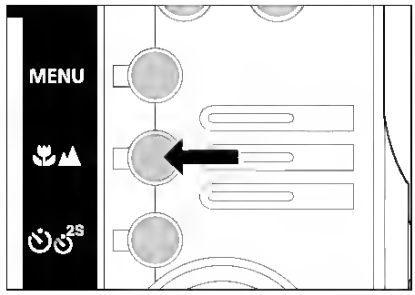
Setting the Focus

Images can be captured with the distance to the subject set by Normal Auto Focus, [ ] Macro Auto Focus, [ ] Super Macro Auto Focus, [ ] Infinity or [**MF**] Manual Focus.

1. Slide the mode switch to [ ] and set the mode dial to one of the photography modes.
   - The available focus settings will depend on the selected photography mode.
2. Toggle the /▲ button to select the desired focus mode.



The table below will help you choose the appropriate focus mode:

Focus mode	Description
[Blank] Normal Auto Focus	Select normal auto focus for most occasions when you want the camera to automatically determine the focus setting. Wide (zoom off): Approximately 0.3m to infinity. Tele (at optical zoom 6x): Approximately 1.8m to infinity.
[ ] Macro Auto Focus	Selects this when you want to capture a close up image. Wide (zoom off): Approximately 0.07m to 0.4m. Tele (at optical zoom 6x): Approximately 0.9m to 1.8m.
[ ] Super Macro Auto Focus	Selects this when you want to capture a more close up image. Wide (zoom off): Approximately 0.02m to 0.4m.
[▲] Infinity	Select the infinity-focus setting when you want to capture images of subjects at a distance of infinity.
[**MF**] Manual Focus	Select this when you want to capture a manual focus image. Wide (zoom off): Approximately 0.02m to infinity. Tele (at optical zoom 6x): Approximately 0.7m to infinity.

NOTE

- When you capture a close-up image at macro mode, the resolution of the corner image may be inferior. This is normal and not a malfunction.

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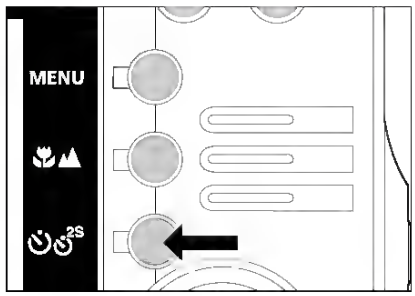
Setting the Self-timer

This setting allows images to be captured with the self-timer.



1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.
2. Toggle the ⏲/⏲2S button to select the setting.
   - Each press of the button moves the icon one step through the sequence and displays it on the screen.
   - For [Single] capture mode.

     OFF → [⏲ **10s**] 10 sec. → [⏲ **2s**] 2 sec.
     ← [⏲ **10+2s**] 10+2 sec. ←

   - For [🎥], [▭], [Continuous] and [AEB] capture modes.

     OFF → [⏲ **10s**] 10 sec. → [⏲ **2s**] 2 sec.
3. Compose the image, press the shutter button down halfway, then press it down fully.
   - The self-timer LED flashes and the image will be captured after the preset time has elapsed.
   - The countdown is displayed on the LCD monitor.
   - To cancel the self-timer during operation, press the **SET** button.

The table below will help you choose the appropriate self-timer mode:

Self-timer mode	Description
[⏲ **10s**] 10 sec.	The image is captured about 10 seconds after the shutter button is pressed.
[⏲ **2s**] 2 sec.	The image is captured about 2 seconds after the shutter button is pressed.
[⏲ **10+2s**]10+2 sec.	The first image is captured about 10 seconds after the shutter button is pressed, and then the second image is captured 2 seconds later. The 10+2 mode is convenient when capturing group images in succession.

NOTE

- The self-timer setting is automatically cancelled after an image is captured.
- Use of the [⏲ 2s] or [⏲ 10s] self-timer setting is effective in preventing motion-blur that can result when the shutter button is pressed at long exposure times. Use a tripod for best results.

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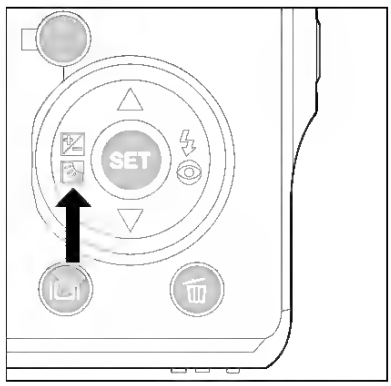
Exposure Compensation/Backlight Correction

Images can be captured with the overall scene intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstances where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you wish to capture is very small within the scene. Exposure can be set in 1/3 EV units.



1. Slide the mode switch to [📷] and set the mode dial to [**P**], [**Tv**], [**Av**], [SET UP], [▭] or [((•))] and press the ± button.
   - Each press of the ± button displays the setting in the order of [±] Backlight Correction and [±] Exposure Compensation.
2. Set the exposure value with the ▲ / ▼ buttons.
   - Press the ▲ button to increase the value.
   - Press the ▼ button to decrease the value.
   - The setting range of the exposure compensation is as follows:-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0.
   - Press the ± button to confirm the setting.
   - The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.

Effective Subjects and Set Values

- \+ (positive) compensation
  - Printed matter comprising black text on whitish paper
  - Backlighting
  - Bright scenes or strong reflected light such as ski slopes
  - When the sky accounts for a large area on the screen
- \- (negative) compensation
  - People illuminated by a spotlight, in particular, against dark background
  - Printed matter comprising white text on blackish paper
  - Weak reflecting bodies such as evergreen trees or darkish leaves
- Backlight correction (+1.3 EV, fixed)
  - When the background is bright and the subject is dark.
  - When subjects (people) have a light source such as the sun to their backs.

- For [SCN] mode, only backlight correction can be set.

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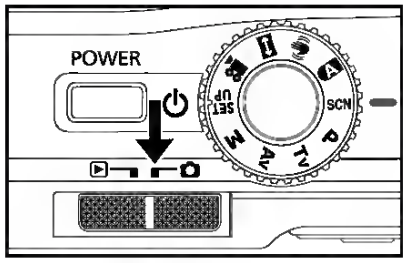
[SCN] Scene Mode

By simply selecting one of the following 16 modes, you can capture the image with most appropriate settings.

1. Slide the mode switch to [📷] and set the mode dial to [**SCN**].
   a. Press the **MENU** button.
   b. Select [Scene Mode], and press the **SET** button.
   c. Select the desired scene mode with the ▲/▼ buttons, and press the **SET** button.
2. Compose the image, press the shutter button down halfway, and then press it down fully.



The table below will help you choose the appropriate scene mode:

Scene mode	Description
[ ] Sports	Select this mode when you want to capture fast-moving subjects.
[ ] Portrait	Select this mode when you want to capture an image that makes the person stand out against a defocused (blurred) background.
[ ] Night Portrait	Select this mode when you want to capture people with an evening or night scene background.
[ ] Night	Select this mode when you want to capture dark scenes such as night views.
[ ] Candlelight	Select this mode when you want to capture photos of candlelit scene, without spoiling the atmosphere.
[ ] Fireworks	Select this mode when you want to capture fireworks clearly with optimal exposure. The shutter speed becomes slower, so using a tripod is recommended.
[▲] Landscape	Select this mode when you want to capture landscape photos with bright color.
[ ] Natural Green	Select this when you want to capture the green scenery background such as forest.
[ ] Sunrise	Select this mode when you want to capture photos of a scene at sunrise. This mode helps keep the deep hues in the scene.
[ ] Sunset	Select this mode when you want to capture photos of a scene at sunset. This mode helps keep the deep hues in the scene.
[ ] Macro	Select this mode for close-up photography.
[ ] Black & White	Select this mode when you want to capture a black & white image.
[ ] Sepia	Select this mode when you want to capture a sepia image.
[ ] Splash Water	Select this mode when you want to capture photos of splashing water.
[ ] Flowing Water	Select this mode when you want to capture the soft flowing water. Shutter speed is automatically slowed down while maintaining proper exposure, which produces an image with the water blurred into smooth flowing lines along with a sharply focused background.
[ ] Pets	Select this mode when you want to capture your pets. Shoot from the eye level of your pets.

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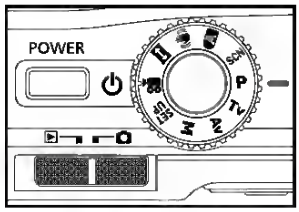
[P] Program (Automatic Exposure) Photography Mode

The camera automatically sets the shutter speed and the aperture to suit the brightness of the subject. This allows you to capture image with ease just like when the [A] mode is selected.

1. Slide the mode switch to [📷] and set the mode dial to [**P**].
2. Compose the image, press the shutter button down halfway, then press it down fully.



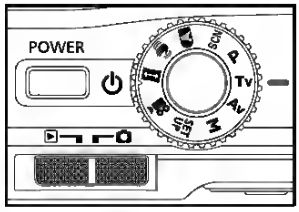
NOTE

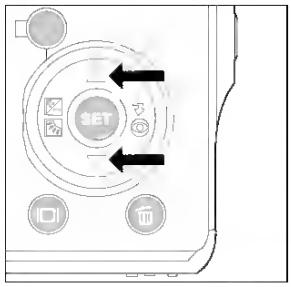
■ Exposure compensation and backlight correction can be set.

[Tv] Shutter Speed Priority Photography Mode

In this mode, images are captured with the priority given to shutter speed. The aperture is automatically set according to the shutter speed. If you set a fast shutter speed, you can capture images of moving subjects that look as if they are still. If you set a slow shutter speed, you can capture images that give the impression that the subject is in motion.

1. Slide the mode switch to [📷] and set the mode dial to [**Tv**].
2. Adjust the shutter speed with the ▲ / ▼ buttons.
   - ■ Press the ▲ button to select faster shutter speeds.
   - ■ Press the ▼ button to select slower shutter speeds.
   - ■ The setting range of the shutter speed is as follows: 1/1500, 1/1250, 1/1000, 1/820, 1/650,1/500, 1/400, 1/320,1/250, 1/200,1/160, 1/125, 1/100, 1/80, 1/64, 1/50,1/40, 1/32, 1/25, 1/20, 1/16, 1/13, 1/10, 0.13s, 0.16s, 0.2s, 0.25s, 0.3s, 0.4s, 0.5s, 0.6s, 0.8s, 1.0s.
   - ■ The shutter speed and corresponding aperture value ardisplayed on the screen. If an appropriate combination cannot be set, the aperture value is displayed in red, but images can be captured regardless.
3. Compose the image, press the shutter button down halfway, and then press it down fully.





NOTE

■ In the flash photography mode, when [ϟ] and [ϟ] are set, the fastest shutter speed is 1/500 second.

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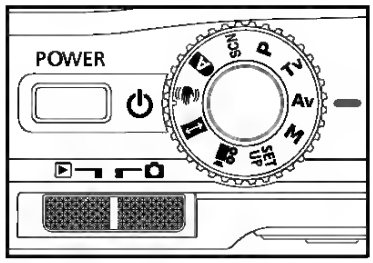
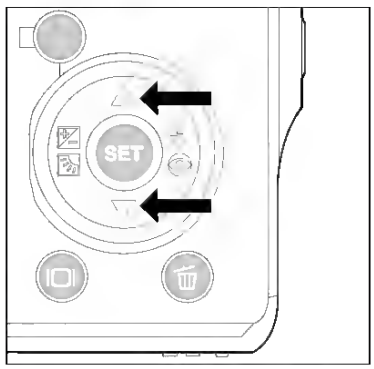
[Av] Aperture Priority Mode

In this mode, images are captured with the priority given to aperture. The shutter speed is automatically set according to the aperture. The aperture will affect the depth-of-field of the camera.
If you set a small aperture (higher F value), you can capture portrait images with an out-of-focus background. Alternatively, if you set a large aperture (lower F value), both close objects and distant objects will be in focus, for example when capturing landscape images.

1. Slide the mode switch to [📷] and set the mode dial to [**Av**].
2. Adjust the aperture with the ▲ / ▼ buttons.
   - Press the ▲ button to increase the value.
   - Press the ▼ button to decrease the value.
   - The setting range of the aperture value is as follows:
     F6.7, F5.6, F4.8, F4.0, F3.5, F2.8 (Wide).
     F4.8, F5.6, F6.7, F8.0, F9.5, F11.0 (Tele).
   - The aperture value and corresponding shutter speed are displayed on the screen. If an appropriate combination cannot be set, the shutter speed is displayed in red, but images can be captured regardless.
3. Compose the image, press the shutter button down halfway, and then press it down fully.





NOTE

- The aperture value varies depending on the position of the zoom lens.

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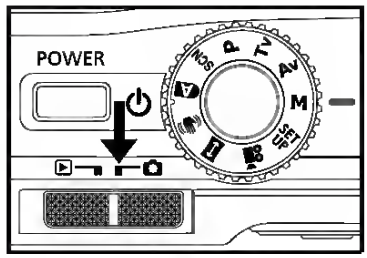
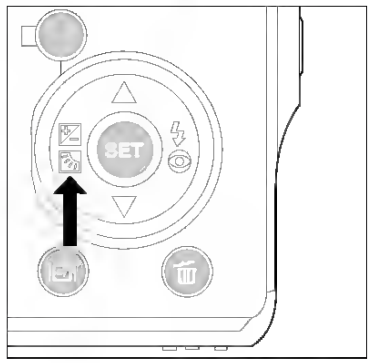
[M] Manual Mode

In manual mode, the aperture value and the shutter speed can be varied individually.

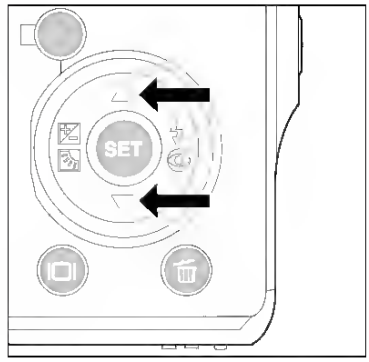
1. Slide the mode switch to [📷] and set the mode dial to [M].



2. Toggle the ± button to select the shutter speed or aperture.



3. Adjust the shutter speed or aperture with the ▲ / ▼ buttons.
4. Compose the image, press the shutter button down halfway, and then press it down fully.



NOTE

■ In the flash photography mode, when [ϟ] and [ϟ] are set, the fastest shutter speed is 1/500 second.

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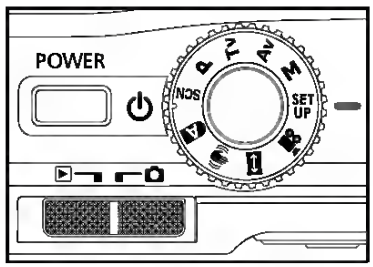
[SET UP] User Setting Mode

This mode allows you manually set the setting parameters and all these settings will be memorized.

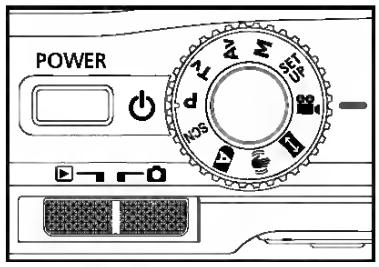
1. Slide the mode switch to [📷] and set the mode dial to [SET UP].
2. Compose the image, press the shutter button down halfway, then press it down fully.



[🎥] Video Mode

This mode allows you to record video clips at a resolution of 640 x 480 pixels. Voice can also be recorded.

1. Slide the mode switch to [📷] and set the mode dial to [🎥].
2. Compose the scene with the zoom button.
   - Optical and digital zoom can be used while composing the scene.
3. Fully press down the shutter button.
   - The recording of the video clip will start.
   - Pressing the shutter button again will end the recording.
   - The recording time depends on the storage size and the subject of the image to be recorded.
   - Zoom function cannot be used during video recording.



NOTE

- When recording video clips, the flash cannot be used.
- If the access speed of your SD memory card is not enough for recording video clips in the currently selected quality, a warning icon [SD] will appear, and then the movie recording will stop. In this case, select a video quality lower than the current one.

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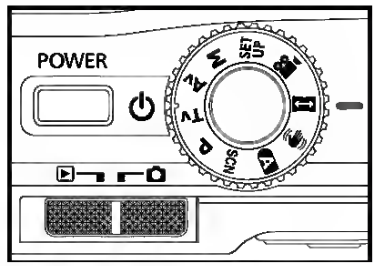
[⇔] Panorama Mode

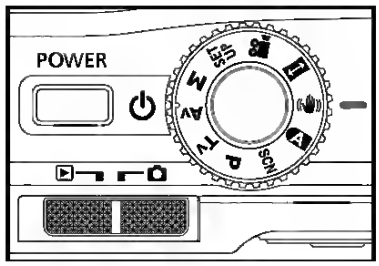
This mode is designed to make it easier to take a series of shots then stitch them together with software to make a single photo. You can capture a photographic subject that won't fit into a single frame, such as a landscape, and stitch it together later with a program such as Cool 360 or Photoshop application.



1. Slide the mode switch to [📷] and set the mode dial to [⇔].
2. Shoot the first image.
   - The next image appears beside the previous image.
3. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image.
4. Follow the same steps to capture subsequent images in the sequence.
5. Finish the sequence by pressing the **SET** button after the last image has been recorded.

[✋] Anti-Shake Mode

The anti-shake function works according to the luminance of the target object. This function uses special image data processing for getting high sensitivity of CCD. High sensitivity can use higher shutter speed compared with normal mode, so it reduces influence of hand shaking. From the resolution point of view, it becomes worse than normal mode. Maximum size of image becomes 5 mega pixels (2560 x 1920).



1. Slide the mode switch to [📷] and set the mode dial to [✋].
2. Compose the image, press the shutter button down halfway, then press it down fully.

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[▶] PLAYBACK MODE

Playing Back Still Images

You can play back the still images on the LCD monitor.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. The images can be displayed in reverse or forward with the ◀ / ▶ buttons.
   - To view the previous image, press ◀.
   - To view the next image, press ▶.

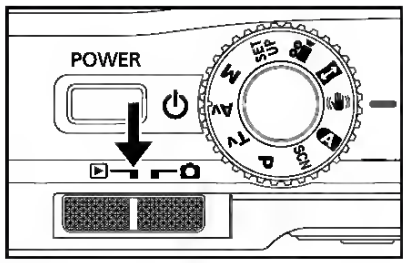
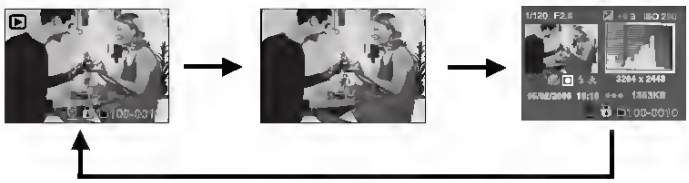
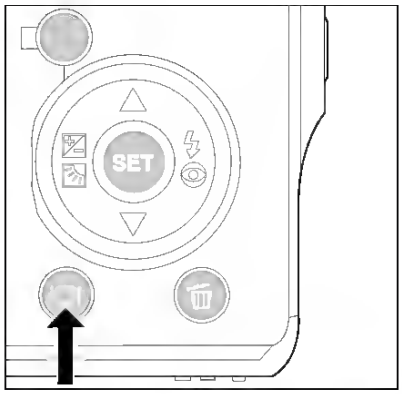


Image Display Information

You can switch the information display by pressing the DISP button when playing back images. Each press of the DISP button switches the information display state in the following order:





NOTE

- Pressing the ▲ / ▼ buttons during image playback will rotate the image 90 degrees.
- The ▲ button rotates the image clockwise, whereas the ▼ button rotates the image counterclockwise. A press of the button opposite to the direction in which the image was rotated will return the image to the normal display.
- A [🎬] icon is displayed with the video data. Video clips cannot be rotated.
- A [🎤] icon is displayed with images which have an audio memo recorded.
- Press the **SET** button to play back voice memos.Press it again to stop voice memo playback.

Playing Back Video Clips

You can play back recorded video clips on the LCD monitor. You can also play back voice.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Select the desired video clip with the ◀ / ▶ buttons.
   - A [🎬] icon is displayed with the video data.
3. Press the **SET** button to play back a video clip.
   - Pressing the ▶ / ◀ buttons during playback initiates fast forward/fast reverse.

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Button Operations

	During Playback	During a Pause	During a Stop
▶ button	(Forward play) Pressing the ▶ button will sequentially invoke 2x fast-forward, 4x fast-forward, regular play.	1-frame feed	The next image is displayed.
◀ button	(Reverse play) Pressing the ◀ button will sequentially invoke 2x fast-reverse, 4x fast- feed reverse, regular play.	Reverse 1 frame	The previous image is displayed.
▲ button	Sound On/Off		
▼ button	Stop (The display returns to the 1st frame playback).		
SET button	Pause	Cancel pause	Regular forward play

NOTE

■ Video clips cannot be displayed rotated or enlarged.

Attaching Voice Memos

A maximum of 30 seconds of audio can be recorded like a memo annotation for each still image. The voice memo can be recorded only once.

1. Slide the mode switch to [▶].
   ■ The last image appears on the screen.
2. Select the image where you want to attach the voice memo with the ◀ / ▶ buttons.
3. Press the shutter button.
   ■ [VOICE RECORDING] is displayed on the screen and recording starts.
4. To stop recording voice memo during recording, press the shutter button again.
   ■ [VOICE RECORD END] will be displayed and the recording will end.
   ■ A [🎙] is displayed with images that have been recorded with a voice memo.

Playing back voice memo

Pressing the **SET** button displays [VOICE PLAYBACK] and plays back the voice memo. Pressing it again stops voice memo playback.

NOTE

■ Voice memo is only available for still images.

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Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time which can help to quickly search for the image that you want.

1. Slide the mode switch to [▶].
   - The last image appears on the screen.
2. Press the ⁂ button.
   - The images are displayed in the thumbnail display.
   - Images that have been selected with the ▲ / ▼ / ◀ / ▶ buttons will be indicated by a green frame.
   - When there are ten or more images, scroll the screen withthe ▲ / ▼ buttons.
3. Press the ▲ / ▼ / ◀ / ▶ buttons to select the image to be displayed at regular size.
4. Press the **SET** button.
   - The selected image is displayed at its regular size.

Page Jump Function

This function allows you to select the image to be displayed immediately from a lot of recorded images.

1. Slide the mode switch to [▶].
2. Press the ⁂ button to enter thumbnail display.
3. Press the ▣ button to enter page jump function and the image is indicated by a red frame.
4. For page selection, follow the steps below:
   - Pressing the ▲ button jumps to the first image.
   - Pressing the ▼ button jumps to the last image.
   - Pressing the ◀ button jumps to the previous thumbnail page.
   - Pressing the ▶ button jumps to the next thumbnail page.
5. Press the ▣ button to resume normal thumbnail display.
   - To select the image to be displayed at regular size, follow the steps 3-4 in the above section.

NOTE

- A [ ], [ ], [ ], [ ] icon will be displayed in a thumbnail display.

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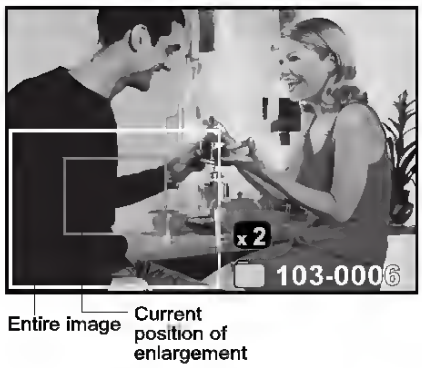
Zoom Playback

This mode also allows you to enlarge your image on the selected portion of the image to check for small details.



1. Slide the mode switch to [▶].
2. Press the ◀ / ▶ buttons to select the image you want to enlarge.
   - You can also select the image you want to enlarge from the thumbnail display.
3. Adjust the zoom ratio with the ♦ / ♦♦♦ buttons.
   - Pressing the ♦ button enlarges the image.
   - To return to normal magnification, press the ♦♦♦ button.
   - The magnification factor is displayed on the LCD monitor.
   - The image is displayed enlarged, and a white frame and green frame are displayed on the LCD monitor.
   - The white frame indicates the entire image, while the green frame shows the location of the currently enlarged area.
4. Press the ▲ / ▼ / ◀ / ▶ buttons to select the area to enlarge.
5. To return to regular display, toggle the ♦♦♦ button until the regular display appears on the screen.

NOTE
- Pressing the ♦ button magnifies the image from 1x —>2x—> 4x—>8x.
- Pressing the ♦♦♦ button reduces the image from 8x—>4x —>2x—> 1x.

Slideshow Display

The slideshow function enables you to play back your still images automatically in sequential order as a slideshow. This is very useful and entertaining feature for reviewing captured images and for presentations.

1. Slide the mode switch to [▶].
2. Press the **MENU** button.
   - The playback menu is displayed.
3. Select [Slide Show] with the ▲ / ▼ buttons, and press the **SET** button.
   - The slideshow starts.
4. To stop the slide show during playback, press the **SET** button.
   - The image is displayed on screen when you press the **SET** button.

NOTE
- The Auto OFF function does not operate during slide show.
- All still images in the folder are automatically played back.

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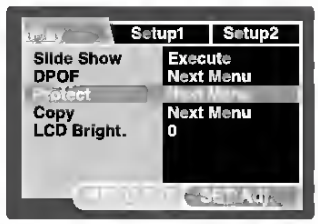
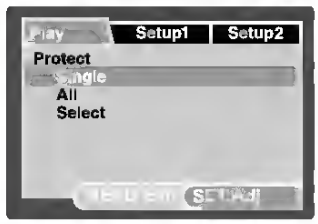
Protecting Images

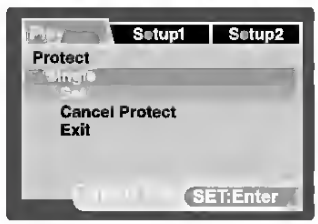
Set the data to read-only to prevent images from being erased by mistake.

Protecting Images

1. Slide the mode switch to [▶].
2. Select the image that you want to protect with the ◀ / ▶ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.
4. Select [Protect] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
6. Select [Set] with the ▲ / ▼ buttons, and press the **SET** button.
   - Protection is applied to the image and the camera returns to the playback mode.
   - The protect icon [🔒] is displayed with protected images.
     When [All] has been selected, [🔒] is displayed with all the images.







Canceling the Protection

To cancel protection, display the image that you want to remove the image protection.

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
3. Select [Cancel Protect] with the ▲ / ▼ buttons, and press the **SET** button.
   - The removal of image protection is executed and the camera returns to the playback mode.

Protecting multiple images simultaneously

1. Select [Protect] with the ▲ / ▼ buttons from the playback menu, and press the **SET** button.
2. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   - The images are displayed in the thumbnail display.
3. Select the image you want to protect with the ▲ / ▼ / ◀ / ▶ buttons, and press the |▢| button.
   - The protect icon [🔒] is displayed with protected images. Selecting a protected image and pressing the |▢| button again will cancel the protection. This procedure is repeated to select multiple images.
4. Press the **SET** button.
   - Protection and cancellation the protection are executed and the camera returns to playback mode.

NOTE

- Formatting an SD memory card (or internal memory) overrides protection, and erases all images regardless of their protected status.

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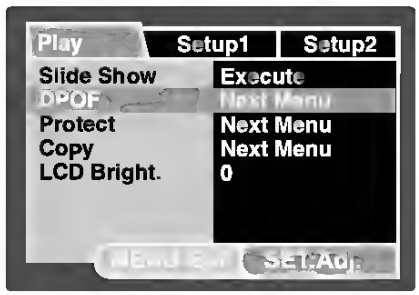
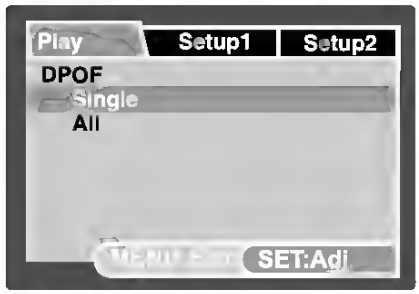
DPOF Settings

DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images.

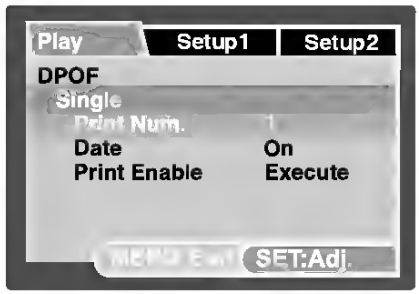
1. Set the mode dial to [▶].
2. Select the image that you want to set DPOF with the ◀ / ▶ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.



4. Select [DPOF] with the ▲ / ▼ buttons, and press the **SET** button.
   - The DPOF setting screen is displayed.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
   - Single: Sets DPOF for each individual image.
   - All: Sets DPOF for all images at once.



6. Select [Print Num.] with the ▲ / ▼ buttons, and press the **SET** button.
   - This displays the number of prints setting screen.
7. Set the number of prints with the ▲ / ▼ buttons, and press the **SET** button.
   - You can set up to 9 prints for each image.
8. Select [Date] with the ▲ / ▼ buttons, and press the **SET** button.
   - The date setting screen appears.



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9. Select date to [On] or [Off] with the ▲ / ▼ buttons, and press the **SET** button.
   - On: The date of the photograph will also be printed.
   - Off: The date of the photograph will not be printed.
10. Select [Print Enable] with the ▲ / ▼ buttons, and press the **SET** button.
11. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
    - This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback mode.
    - The DPOF icon [🖨] is displayed on each image that have set up DPOF settings.

NOTE

- The date that is printed on the photo is the date set on the camera. To print the correct date on the photo, set the date on the camera before you photograph the image. Refer to section in this manual titled "Setting the Date and Time" for further details.
- For DPOF settings on images stored in the internal memory, be sure to copy those files to an SD memory card first. Refer to section in this manual titled "Copying Files from Internal Memory to a Memory Card" for further details.

Copying Files from Internal Memory to a Memory Card

This function allows you to copy your files from the digital still camera's internal memory to a memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory.

1. Set the mode dial to [▶].
2. Select the image that you want to copy to a memory card with the ◀ / ▶ buttons.
3. Press the **MENU** button.
   - The playback menu is displayed.
4. Select [Copy] with the ▲ / ▼ buttons, and press the **SET** button.
5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To not copy, select [Cancel] with the ▲ / ▼ buttons, and press the **SET** button.

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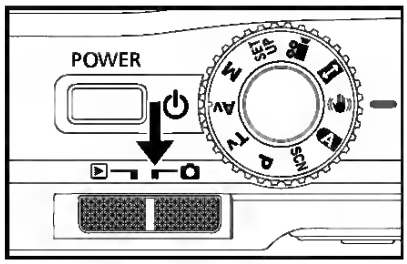
[🗑] Deleting Images

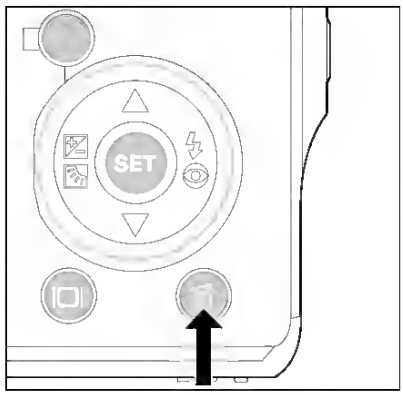
Immediate Erasure (Quick Delete Function)

The quick delete function enables you to delete the last-captured image during capture.

1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.



2. Press the 🗑 button.
   - The last image and quick delete menu appear on the screen.



3. Press the 🗑 button again to delete the image.
   - You may also press the **SET** button to confirm the deletion.
   - To not delete, select [Cancel], and press the **SET** button.

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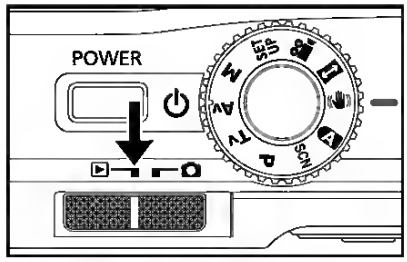
Deleting in Playback Mode

Deleting a single image/Deleting all images

1. Slide the mode switch to [▶].
   - The last image will be displayed on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the 🗑 button.
   - The deletion menu will be displayed.
4. Select [Single] or [All] with the ▲ / ▼ buttons, and press the **SET** button.
   - Single: Erases the selected image or the last image.
   - All: Erases all of the images except for the protected images.
   - Select: Erases a number of selected images.
5. Select [Execute] with the ▲ / ▼ buttons, and press the **SET** button.
   - To not erase, select [Cancel], and press the **SET** button.



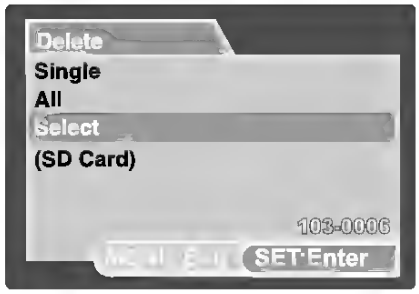
NOTE

- Deleting an image will not affect sequential image numbering. For example, if you delete image number 240, the next captured image will be numbered 241 even though 240 no longer exists. In other words, an image-number is retired when an image is deleted and will not be reused or reassigned to another subsequently captured image.

Deleting selected images

This deletes a number of selected images.

1. Slide the mode switch to [▶].
2. Press the 🗑 button.
   - The deletion menu will be displayed.
3. Select [Select] with the ▲ / ▼ buttons, and press the **SET** button.
   - The images are displayed in the thumbnail display.
4. Select the image you want to erase with the ▲ / ▼ / ◀ / ▶ buttons, and press the 🗑 button.
   - The [🗑] icon will be displayed. One more press of the 🗑 button will cancel the operation. Repeat this procedure and select all the images that you want to erase.
5. Press the **SET** button.



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MENU OPTIONS

Photography Menu (Capture tab)

This menu is for basic settings used when capturing images in the photography modes. These settings are retained even if the camera is turned off or the Auto OFF function is activated.

Available menu options in each photography mode:

Auto

Capture	Function
Size	Capture Mode
Quality	Voice Memo
Sharpness	LCD Bright.
Contrast	Digital Zoom
Color	Preview
	Date Print
	Beep

Scene

Capture	Function
Scene Mode	Capture Mode
Size	Voice Memo
Quality	LCD Bright.
	Digital Zoom
	Preview
	Date Print
	Beep

Program / Tv / Av / M / User Setting

Capture	Function	AE/AWB
Size	Capture Mode	White Balance
Quality	Voice Memo	Manual WB
Sharpness	LCD Bright.	ISO
Contrast	Digital Zoom	Metering
Color	Preview	Focus Area
	Date Print	Flash Offset
	Beep	

Video

Capture	Function	AE/AWB
Quality	LCD Bright.	White Balance
Contrast	Digital Zoom	Manual WB
Color	Beep	

Panorama

Capture	Function	AE/AWB
Size	LCD Bright.	White Balance
Quality	Beep	Manual WB
Sharpness		ISO
Contrast		Metering
Color		Flash Offset

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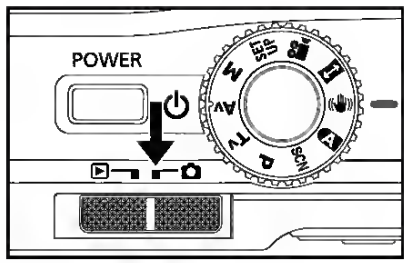
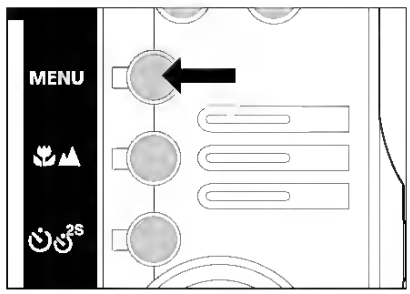
Anti-Shake

Capture	Function	AE/AWB
Size	Voice Memo	White Balance
Quality	LCD Bright.	Manual WB
Sharpness	Digital Zoom	Metering
Contrast	Preview	Focus Area
Color	Date Print	Flash Offset
	Beep	

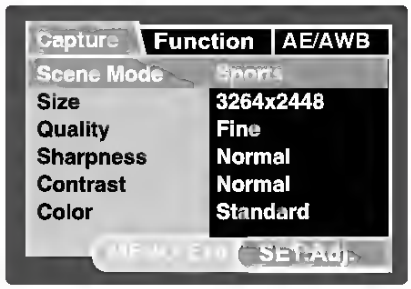
1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.



2. Press the **MENU** button.
   ■ [Capture] menu is displayed.



3. Select the desired [Capture] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.



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Scene Mode

Refer to section in this manual titled "Scene Mode" for further details.

Size (resolution)

This sets the resolution of the still-image that will be captured.

* [ ] 3264 x 2448: 3264 x 2448 pixels (8 Megapixel resolution)
* [ ] 2560 x 1920: 2560 x 1920 pixels (5 Megapixel resolution)
* [ ] 1600 x 1200: 1600 x 1200 pixels (2 Megapixel resolution)
* [ ] 640 x 480: 640 x 480 pixels (VGA resolution)

Quality

This sets the quality (compression rate) at which the image is captured.

* Fine / Normal / Economy

NOTE

■ [Economy] setting is not available for [ ] mode.

Sharpness

The camera can automatically emphasize the borders between light and dark areas of the image. This will make the image's edges look sharper. In some scenes you may prefer sharper edge detail. In other scenes you may prefer softer edge detail.
This sets the sharpness of the image that will be captured.

* Hard / Normal / Soft

Contrast

This sets the difference between the bright and dark portions of the images that will be captured.

* Hard / Normal / Soft

Color

This sets the color of the image that will be photographed.

* Standard / Vivid / Sepia / Monochrome

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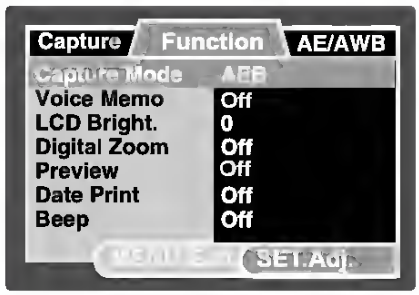
Photography Menu (Function tab)

1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.
2. Press the **MENU** button, and select the [Function] menu with the ▶ button.
   - The [Function] tab of the photography menu is displayed.
3. Select the desired [Function] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the photography menu, press the **MENU** button.



Capture Mode

This sets the recording method at the time of capturing images.

* [**Blank**] Single: Capture an image at a time.
* [⧉] Continuous: Permits continuous photography of 3 images max.
* [**AEB**] AEB: Permits 3 consecutive images in the order of standard exposure, underexposure and overexposure compensation.

NOTE

- In [Continuous] and [AEB] capture mode, the voice memo is automatically fixed at [Off].

Voice Memo

Refer to section in this manual titled “Recording Voice Memos” for further details.

* On / Off

NOTE

- When [Preview] is set to [Off], [Voice Memo] setting is also fixed at [Off].

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LCD Bright.

Select a brightness level for the LCD monitor. The LCD becomes brighter with the ▲ button and darker with the ▼ button. The adjustment range is from -5 to +5.

Digital Zoom

This sets whether or not to use digital zoom at the time of photography.
* On / Off

Preview

This sets whether or not to display the captured image on the screen immediately after the image is captured.
* On / Off

NOTE

■ When [Preview] is set to [Off], [Voice Memo] setting is also fixed at [Off].

Date Print

The date and time of recording can be printed directly on the still images. This function must be activated before the image is captured.
* On / Off

Date imprinted here

Beep

Enables or disables the sounds (beeps) associated with camera button functions.
* On / Off

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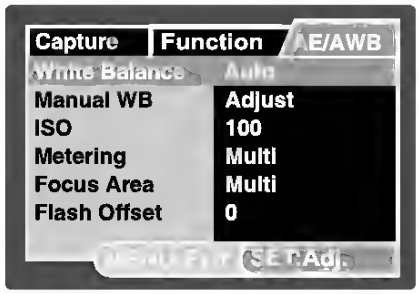
Photography Menu (AE/AWB tab)

1. Slide the mode switch to [📷] and set the mode dial to one of the photography modes.
2. Press the **MENU** button, and select the [AE/AWB] menu with the ▶ button.
   - The [AE/AWB] tab of the photography menu is displayed.
3. Select the desired [AE/AWB] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from this menu, press the **MENU** button.



White Balance

This sets the white balance capturing under a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

* [**Blank**] Auto
* [💡] Incandescent
* [🔆1] Fluorescent 1
* [🔆2] Fluorescent 2
* [☀] Day Light
* [☁] Cloudy
* [🖐] Manual

Manual WB

This manually sets the white balance and stores it. Use of this is convenient when the white balance does not offer a good match.
Before select [Execute] determine the subject (such as a white paper) that will be used to set the white balance.

* Cancel / Execute

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ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.

* 64 / 100 / 200 / 400 / Auto

NOTE

- In the [Auto] setting, the ISO value is automatically selected from ISO 64 to ISO 200.
- In the [🎥] mode, the ISO function cannot be used. And the ISO setting will be automatically set between ISO 64 and ISO 400.
- [Auto] setting is not available for [Tv], [Av] and [M] mode.

Metering

This sets the metering method for calculating the exposure.

* [⊡] Multi: The entire area of the screen is measured, and the exposure is calculated.
* [⊙] Spot: A very small portion of the center of the screen is measured, and the exposure is calculated.
* [□] Average: The exposure is measured all of the image area.

Focus Area

This sets the focusing area.

* Multi: The function of auto focus finds the best proper position from 9 blocks of focus area.
* Center: The function of auto focus adjusts focus at the center of image.

Flash Offset

This sets the flash strength. The flash power becomes strong when selecting "+" values. The flash power becomes soft when selecting "-" values.

* +2 / +1 / 0 / -1 / -2

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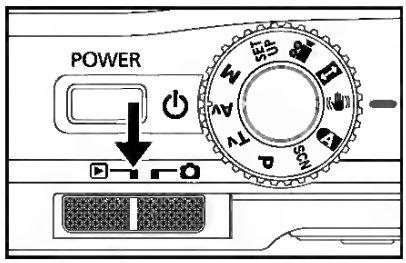
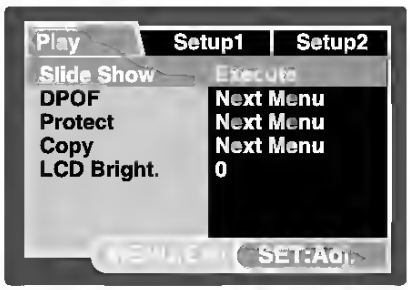
Playback Menu

In the [▶] mode, set which settings are to be used for playback.

1. Slide the mode switch to [▶].
2. Press the **MENU** button.
   ■ The playback menu is displayed.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.





Slide Show
Refer to section in this manual titled "Slideshow Display" for further details.

DPOF
Refer to section in this manual titled "DPOF Settings" for further details.

Protect
Refer to section in this manual titled "Protecting Images" for further details.

Copy
Refer to the section in this manual titled "Copying Files from Internal Memory to a Memory Card" for further details.

LCD Bright.
Refer to section in this manual titled "LCD Bright." in Photography Menu (Function tab) for further details.

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Setup1 Menu

Set your camera's operating environment.

1. Slide the mode switch to [▶].
2. Press the **MENU** button, and select the [Setup1] menu with the ▶ button.
   ■ The [Setup1] menu is displayed.
3. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Media Info.

This displays the free capacity of the SD memory card (or internal memory). If the SD memory card is not inserted, free capacity of internal memory is displayed.

Fr. No. Reset

This creates a new folder. The photographed images are recorded to the newly created folder from number 0001.
* Cancel / Execute

Format

Refer to section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details.

Beep

Refer to section in this manual titled "Beep" in Photography Menu (Function tab) for further details.

Auto OFF

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery wear.

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Setup2 Menu

1. Slide the mode switch to [▶].
2. Press the **MENU** button, and select the [Setup2] menu with the ▶ button.
   ■ The [Setup2] menu is displayed.
3. Select the desired [Setup2] option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Date/Time

Refer to section in this manual titled "Setting the Date and Time" for further details.

Sys. Reset

This returns all basic settings to the camera's default settings. The time setting will not be reset.

* Cancel / Execute

Language

Refer to section in this manual titled "Choosing the Display Language" for further details.

Video Output

This sets video output system of the video equipment that you are going to connect to the camera.

* NTSC / PAL

System Info.

This displays the firmware version of the camera.

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TRANSFERRING RECORDED IMAGES AND VIDEOS TO YOUR COMPUTER

To transfer images/video clips from the camera to your computer, follow these steps:
Step 1: Installing the USB driver (Windows 98 users only)
Step 2: Connecting the camera to your computer
Step 3: Downloading images and video files

System Requirements (Windows)
- Pentium 166 MHz or higher
- Windows 98/98SE/Me/2000/XP
- 128MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

System Requirements (Macintosh)
- PowerPC G3/G4
- OS 9.0 or later
- 128MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

Step I: Installing the USB Driver

Windows 98 computers
The USB driver on the CD-ROM is exclusively for Windows 98 computers. Installing the USB driver on computers running Windows 2000/ME/XP is not necessary.

1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**INSTALL USB DRIVER**". Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.

Macintosh OS 9.0 computers
For Mac OS 9.0 or higher, the computer will automatically recognize the camera and load its own USB drivers.

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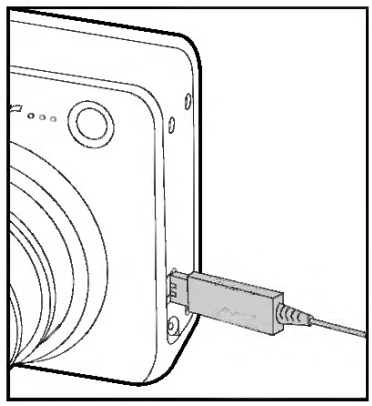
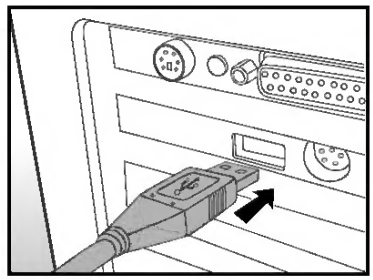
Step 2: Connecting the Camera to Your Computer

1. Connect one end of the USB cable to the USB terminal of the camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. Turn on your camera.
   - The [USB] screen appears.
4. Select [PC] and press the **SET** button.
5. From the Windows desktop, double click on "My Computer".
6. Look for a new "Removable disk" icon. Typically, the camera will be assigned drive letter "e" or higher.
7. Double click on the removable disk and locate the DCIM folder.
8. Double click on the DCIM folder to open it to find more folders.
   - Your recorded images and video clips will be inside these folders.
   - Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.





Mac users: Double-click the "untitled" or "unlabeled" disk drive icon on our desktop. iPhoto may automatically launch.

NOTE

- The data saved to the internal memory (memory card) may be damaged if the power to the camera is cut off during image transfer. We recommend that you use the AC power adapter when connecting the camera to the PC.

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Step 3: Downloading Images and Video Files

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the "Removable disk" ("untitled" or "unlabeled" disk on a Macintosh) to your computer hard drive.

Windows

Open the "removable disk" and subsequent folders by double clicking on them. Your images are inside these folder(s). Select the images that you want, and then choose "Copy" from the "Edit" menu. Open the destination location (folder) and choose "Paste" from the "Edit" menu. You may also drag and drop image files from the camera to a desired location.

Macintosh

Open the "untitled" disk icon, and the destination location on your hard disk. Drag and drop from the camera to the desired destination.

NOTE

- Do not open the battery cover during USB cable connection.
- Memory card users may prefer to use a memory card reader (highly recommended).
- A video playback application is not included with the package. Make sure that a video playback application has been installed in your computer.
- If you cannot download images/video clips stored in the internal memory, you may copy those files to an SD memory card first and then transfer to your computer. Refer to section in this manual titled "Copying Files from Internal Memory to a Memory Card" for further details.

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CAMERA SPECIFICATIONS

Item	Description
Image sensor	1/1.8" CCD sensor (8.28 Mega pixels)
Image resolution	<Still image> 3264 x 2448, 2560 x 1920, 1600 x 1200, 640 x 480 <Video clip> 640 x 480 (30 fps)
LCD monitor	2.8" full color TFT LCD (230K pixels)
Recording media	32 MB internal memory (25 MB available for image storage) Supports SD memory card (up to 1 GB) (optional)
File format	JPEG, DCF, EXIF 2.2, DPOF, Motion JPEG
Lens	6x optical zoom lens Aperture range: 2.8(W) – 4.8(T) Focal length: 7.8mm – 46.8mm (equivalent to 37mm – 222mm on a 35mm camera)
Stabilization	Anti-Shake system
Shutter speed	1 – 1/1500 sec.
Digital zoom	8.5x (Capture mode) 2x, 4x & 8x (Playback mode)
Flash effective range	0.5m – 2.7m
Terminal	DC IN 5V terminal A/V OUT terminal USB 2.0 Compliant
Power supply	Rechargeable Lithium-ion battery (3.7V) (optional) AC power adapter (5V/3A) (optional)
Dimension (W x H x D)	96 x 61 x 29 mm (3.9 x 2.5 x 1.2 inches)
Weight (without battery)	180 g (6.3 oz.)

* Design and specifications are subject to change without notice.
* DSP anti-shake could minimize (not 100% reduce) the jitter from shaky hands that causes many photos to look blurred by shifting the lens unit. This mode offsets unintentional hand movement while you are taking pictures to give you clear, sharp images even when taking handheld telephoto shots or shooting at night.
* If the video cannot be playback in the WMP 9.0, please you have to update the renewed of WMP 9.0 from the Microsoft website.
* If the access speed of your memory card is not high enough (over 2MB/Sec for random write - 20x SD memory card compliant), the video clip will automatic stop or some unexpected situation may occur while recording. In this case, change into a high-speed memory card or select standard quality.

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